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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/754,321	01/09/2004	Alfred W. Mak	AM	AMAT/8428/MASK/MASK-ETCH/ 7484		
44257	7590 11/21/2006		EXAMINER		INER	
PATTERSON & SHERIDAN, LLP				DEO, DUY VU NGUYEN		
3040 POST OAK BOULEVARD, SUITE 1500 HOUSTON, TX 77056		E 1500		ART UNIT	PAPER NUMBER	
110001011,				1765		
		•		DATE MAILED: 11/21/2000	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/754,321	MAK ET AL.				
Office Action Summary	Examiner	Art Unit				
	Duy-Vu N. Deo	1765 .				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 11 September 2006.						
2a) This action is FINAL . 2b) This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-18 and 25</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-18</u> is/are allowed.						
6)⊠ Claim(s) <u>25</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application Other:						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claim 25 is rejected under 35 U.S.C. 102(b) or (e) as being anticipated by admitted prior art.

The rejection is either 102 (b) or (e) because it is unclear when the prior art described in pages 1-5 of the specification was known and published at the time of the invention was filed.

Admitted prior art describes a method for controlling the critical dimensions of a photomask substrate comprising: providing a photomask substrate with a metal layer on top; performing a photolithographic process on the substrate (this would provide a printed pattern on the photomask); measuring pre-etch critical dimensions of the respective elements of the etched photomasks (of the substrate of the previous batch) and adjusting or modifying the etch process (claimed etch recipe or initial etch recipe) for the substrate based on the pre-etch critical dimension data and then performing etch

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process on the substrate based on the modified etch recipe (paragraphs [0004,0006]) (this would form an etched pattern on the substrate).

An integrated measuring tool must be used in order to measure the CD and conformity of the etched features.

Allowable Subject Matter

3. Claims 1-18 are allowed. Applicant's argument that admitted prior art doesn't describe pre-etched dimensions are measured on a photomask substrate which is subsequently etched is found persuasive. In particular, admitted prior art doesn't suggest the limitations measuring pre-etch critical dimensions of the printed pattern on the photomask substrate by an integrated measuring tool; modifying the etch recipe based on the pre-etch critical dimensions date of the photomask substrate, performing the etch process on the photomask substrate based on the modified etch recipe to form an etched pattern on the photomask substrate, and measuring post-etch critical dimensions of the etched pattern.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Duy-Vu N. Deo whose telephone number is 571-272-1462. The examiner can normally be reached on Mon-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on 571-272-1465. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Duy-Vu N Deo Primary Examiner Art Unit 1765

11/16/06